

## CLAIMS

What is claimed is:

- 5     1. A computer system apparatus comprising: a client computer providing a browser and a  
decompression module; at least one compression proxy comprising a CPU, a memory  
means, means for sending requests, means for receiving requests, means for sending  
data, means for receiving data, and data compression means; and a server; the client  
computer, compression proxy and server, interconnected through a wide area network;  
10     the compression proxy further interconnected to a user database.
2. The apparatus of claim 1 wherein the client computer further comprises a software  
module providing a transformation means.
3. The apparatus of claim 1 further comprising a caching proxy.
4. A computer system method comprising the steps of: receiving requests for data from a  
15     client computer; checking authorization of the requests for data; rejecting unauthorized  
requests for data; sending authorized requests for data to a server; receiving data from  
the server; checking if the data are suitable for compression; sending unsuitable data to  
the client computer; compressing data suitable for compression; sending compressed  
data to the client computer.
- 20     5. The method according to claim 4 further comprising the step of changing the requests for  
data according to an HTTP requirement.
6. The method according to claim 4 further comprising the step of providing a credentials  
field and a user field in each of a plurality of database records.
7. The method according to claim 6 further comprising the step of performing the  
25     operations of adding a user, deleting a user, and looking up credentials, on the database  
records.
8. The method according to claim 6 further comprising the step of setting client credentials  
in a proxy-authorization field of a HTTP request.

9. The method of claim 4 further comprising the step of using a lossless compression method.
10. The method of claim 4 further comprising the step of increasing a maximum number of connections allowed between the client computer and the proxy computer.
- 5 11. The method of claim 4 further comprising the step of using a file extension of a requested URL in determining a destination of a data request.
12. The method of claim 4 further comprising the step of connecting the client computer through one of a dial up network and a wireless network.
- 10 13. A computer system method comprising the steps of: searching a credentials lookup table for a client computer; authorizing the client computer if credentials of the client computer are found in the credentials lookup table; searching a database for the client computer if the client computer is not found in the credentials lookup table; authorizing the client computer if the client computer is found in the database and the client computer has approved credentials; rejecting the client computer if the client computer is not found in the lookup table nor in the database; storing an IP address of the client  
15 computer if the client computer is authorized; allowing all requests from the stored IP address for a selected period of time; and renewing credentials after the selected period of time has elapsed.